

48PGD/E/F/L/M03-07

50PG03-07

**Single-Package Cooling Units with
Factory-Installed Gas Heat and
Optional Electric Heat**



Turn to the Experts.®

Submittal Data

- **PERFORMANCE DATA**
- **CERTIFIED DIMENSION PRINTS**
- **ROOF CURB
DIMENSION PRINTS**



Job Name: _____ Location: _____
 Buyer: _____ Buyer P.O.# _____ Carrier #: _____
 Unit Number: _____ Model Number: _____
 Unit Designation: _____
 Performance Data Certified By: _____ Date: _____



ARI Standard
210/240 UAC
 Sizes 03-06



ARI Standard
340/360
 Size 07



DESCRIPTION

All units are pre-wired, tested, and pre-charged with Puron® (R-410A) HFC refrigerant at the factory. The 48PG units are one-piece ultra-high efficiency rooftop cooling units with gas heat. The 50PG units are one-piece ultra-high efficiency cooling units with optional electric heat. Units are factory tested in both heating and cooling modes. The unit is rated in accordance with ARI Standard 210 and 360, tested in accordance with UL Standard 1995 and listed by UL and UL, Canada. The 48PGD model is low heat, the 48PGE model is medium heat, and the 48PGF model is high heat. The 48PGL model is low heat with stainless steel heat exchangers, the 48PGM is medium heat with stainless steel heat exchangers, and the 48PGN model is high heat with stainless steel heat exchangers. The 48/50PG unit is field convertible from factory-furnished vertical airflow or horizontal airflow models.

STANDARD UNIT — FEATURES

- Puron (R-410A) HFC refrigerant.
- SEERs up to 15.0 and EERs up to 12.2.
- Sound levels as low as 72 dB.
- Scroll compressors internally protected and crankcase heaters.
- Thermostatic expansion valve refrigerant control with removable power element.
- Hinged access doors with quarter-turn latches, tiebacks and handles.
- Slide-out blower/motor assembly.
- Slide-out and internally sloped condensate pan.
- Slide-out filter tracks with 2 or 4-in. filter capabilities.
- Power and condensate thru-the-bottom or thru-the-curb connections.
- Major access doors have double-wall construction.
- Cleanable foil-faced insulation throughout the entire unit airstream.
- Field convertible duct connections from vertical to horizontal.
- Totally enclosed, thermally protected, shaft down condenser motors.
- Solid core liquid line filter drier.
- Isolated and insulated compressor compartment.
- Belt drive fan and motor assembly.
- Copper tube aluminum fin coils.
- Wiring is colored and labeled throughout the unit.
- Heavy gauge full perimeter base rails with built-in rigging capabilities.
- Cooling operation up to 125°F (52°C).
- Cleanable single slab evaporator and condenser coils.
- Refrigerant access valves that allow system readings without creating air bypass.
- Compressor protection includes high, low pressure cutouts and over temperature protection.
- 24-volt control system with resettable circuit breaker.
- One-year product warranty.
- Five-year warranty on all compressors.

STANDARD UNIT — FEATURES (48PG ONLY)

- Up to 81% efficiency.
- Induced draft combustion system used for reliability and safety.
- Reliable IGC (integrated gas unit controller) provides system evaluation and troubleshooting via onboard LED indicator.
- Direct spark ignition.
- Alumagard™ coated Turbo-tubular™ heat exchangers.
- Two-stage capacity control.
- Single point gas connection-side or bottom.
- Ten-year warranty on Alumagard coated Turbo-tubular gas heat exchanger.
- Fifteen-year warranty on optional stainless steel heat exchanger.

STANDARD UNIT — FEATURES (50PG ONLY)

- Five-year warranty on electric heaters.
- Electric heaters available as factory-installed option or field-installed accessory.
- Heavy-duty nickel chromium element with high limit reset.
- Single point wiring kits available.

COMFORTLINK™ CONTROLS — FEATURES

Features with optional ComfortLink™ controls:

- Communications (via stand-alone thermostat or CCN [Carrier Comfort Network®]).
- Scrolling Marquee display.
- Time schedule.
- Reverse rotation protection for compressors.
- Space temperature sensor capability.
- Service diagnostics, alarms, and alarm history.
- Service run test capability.
- Unit run time and compressor cycles history.
- CO₂ sensor capability.
- 0°F (-18°C) ambient cooling operation.
- 3V™ (VVT®) Zoning Linkage.

ELECTRO-MECHANICAL CONTROLS — FEATURES

Features with optional electro-mechanical controls:

- -40°F (4°C) ambient cooling operation.
- Low pressure protection.
- Freeze protection.
- Cycle-LOC™ compressor lockout logic.
- High pressure protection.

PERFORMANCE DATA

Cooling

Efficiency _____ SEER/EER
Net Total Capacity _____ Btuh
Net Sensible Capacity _____ Btuh
Compressor Power Input _____ kW
Outdoor Air Temperature _____ F
Indoor Entering Air _____ db F _____ wb F
Airflow CFM _____ External Static Pressure _____ in. wg
Indoor Fan RPM _____
Indoor Fan Bhp _____
Unit Operating Weight _____ lb
Curb Weight _____ lb

Heating (Gas)

Total Heating Capacity:

INPUT
Stage 1 _____ Btuh
Stage 2 _____ Btuh
OUTPUT
Stage 1 _____ kW
Stage 2 _____ kW
AFUE _____ %
Steady State _____ %

Heating (Electric)

Total Heating Capacity:

Stage 1 _____ Btuh
Stage 2 _____ Btuh

ELECTRICAL DATA

Power Supply to Unit _____ Volts _____ Phase _____ Hz
Minimum Circuit Amps _____ Maximum Overcurrent Protection _____

SUBMITTAL DATA

Job Name _____
Architect _____
Engineer _____
Contractor _____
Unit Designation _____

OPTIONS AND ACCESSORIES

Factory-Installed Options

- ☐ Intelligent *ComfortLink™* Controls
- ☐ Electro-Mechanical Controls
- ☐ Humidi-MiZer™ Dehumidification Package with Adaptive Dehumidification Control
- ☐ Tilt-Out Economizer with Single Dry Bulb Sensor and Barometric Relief
- ☐ Tilt-Out Economizer with Single Enthalpy Sensor and Barometric Relief
- ☐ Powered 115-volt Convenience Outlet
- ☐ Non-Powered 115-volt Convenience Outlet
- ☐ HACR Breaker
- ☐ Non-Fused Disconnect Switch
- ☐ Manual Outdoor-Air Damper
- ☐ Two-Position Motorized Outdoor Air Damper
- ☐ Power Exhaust
- ☐ Condenser Coil Hail Guards
- ☐ MERV- 8 Pleated Filters
- ☐ CO₂ Sensor
- ☐ Return Air and Supply Air Smoke Detectors
- ☐ Fan and Plugged Filter Switch
- ☐ High-Static Performance Motor/Drives
- ☐ Phase Loss Protection
- ☐ Pre-Coated Aluminum Fin/Copper Tube Coils
- ☐ Copper Fin/Copper Tube Coils
- ☐ E-Coated Aluminum Fin/Copper Tube Coils
- ☐ E-Coated Copper Fin/Copper Tube Coils
- ☐ Stainless Steel Gas Heat Exchanger (48PG Only)
- ☐ Low/Medium/High Electric Heaters (50PG Only)
- ☐ Low NOx Gas Models (48PG 2 to 5 Ton Only)
- ☐ Low/Medium/High Gas Heat Sizes (48PG Only)
- ☐ UVC Lights (special order only)

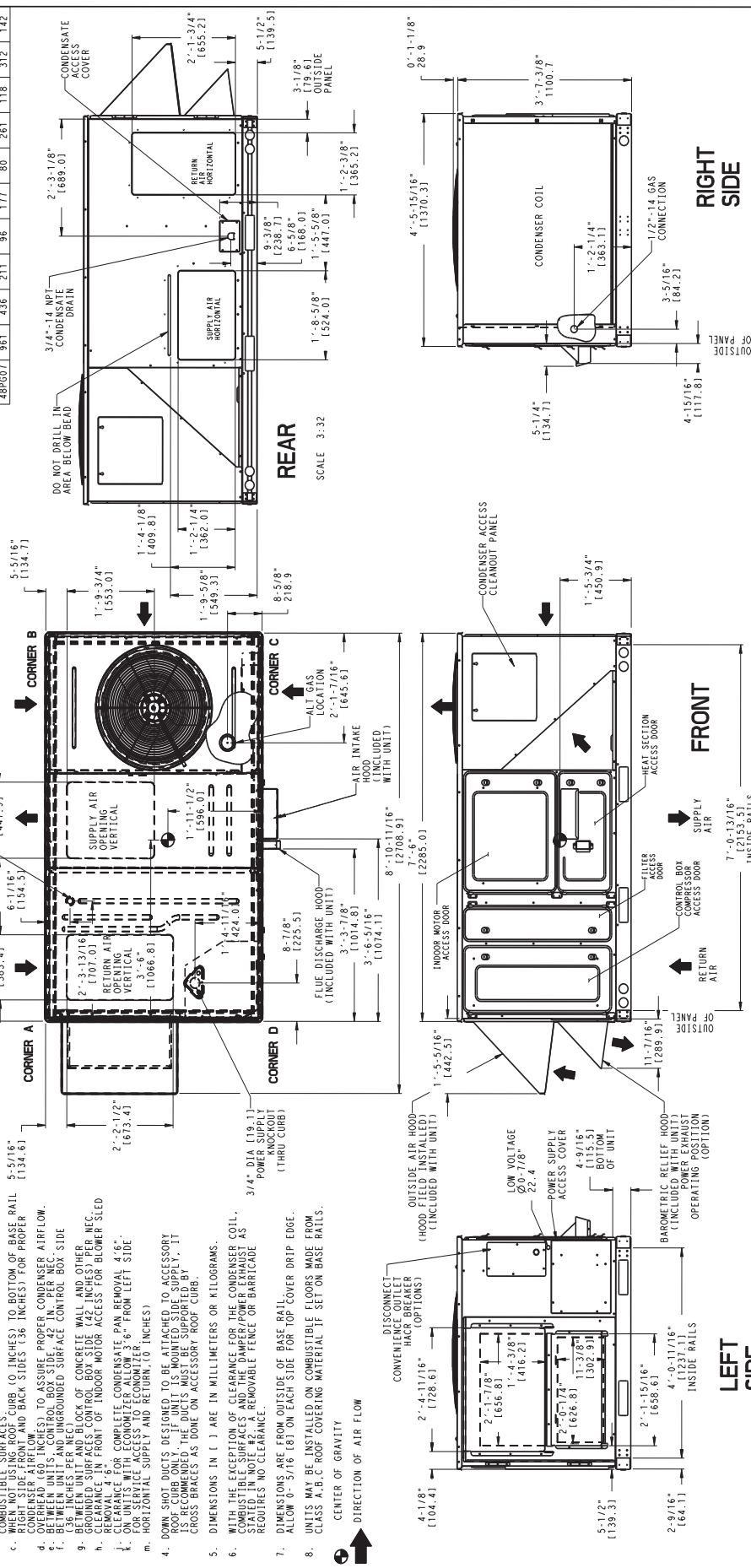
Field-Installed Accessories

- ☐ Economizer with Single Dry Bulb Sensor and Barometric Relief
- ☐ Solid-State Enthalpy Control
- ☐ Differential Enthalpy Control
- ☐ Manual Outdoor-Air Damper
- ☐ Two-Position Motorized Outdoor Air Damper
- ☐ Power Exhaust
- ☐ Condenser Coil Hail Guards
- ☐ CO₂ Sensor
- ☐ Return Air and Supply Air Smoke Detectors
- ☐ Fan and Plugged Filter Switch
- ☐ Thru-the-Curb Gas Connection Kit (48PG Only)
- ☐ Thru-the-Bottom Gas Connection Kit (48PG Only)
- ☐ 62M Energy Recovery Ventilator
- ☐ Phase Loss Protection
- ☐ Low/Medium/High Electric Heaters (50PG Only)
- ☐ Single Point Electric Heater Kits (50PG Only)
- ☐ Roof Curb (14 in.)
- ☐ Roof Curb (24 in.)
- ☐ Adapter Curbs
- ☐ Burglar Bars
- ☐ Liquid Propane (LP) Gas Conversion Kit (48PG Only)
- ☐ High Altitude Gas Kit (48PG Only)
- ☐ Flue Gas Discharge Deflector (48PG Only)
- ☐ Thermostat and Subbase
- ☐ T-55 Space Temperature Sensor with Override
- ☐ T-55 Space Temperature Sensor and CO₂ Sensor with Override
- ☐ T-56 Space Temperature Sensor with Override and Set Point Adjust
- ☐ T-56 Space Temperature Sensor and CO₂ Sensor with Override and Set Point Adjust
- ☐ T-58 CCN Communicating Space Temperature Sensor with Override and Set Point Adjust
- ☐ Thermidistat™ Device (used with Humidi-MiZer system only)
- ☐ Humidistat (used with Humidi-MiZer system only)

OTHER SPECIAL ITEMS

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UNIT	STD. UNIT WEIGHT (A)	CORNER WEIGHT (B)	CORNER WEIGHT (C)	CORNER WEIGHT (D)						
					LBS. KG.	LBS. KG.	LBS. KG.	LBS. KG.		
48P003	714	351	170	77	142	65	210	95	251	114
48P004	714	351	170	77	142	65	210	95	251	114
48P005	786	357	173	78	145	66	214	97	255	116
48P006	901	409	198	90	166	75	245	111	293	133
48P007	921	418	202	92	169	77	250	113	299	136
48P008	961	436	211	96	177	80	261	118	312	142

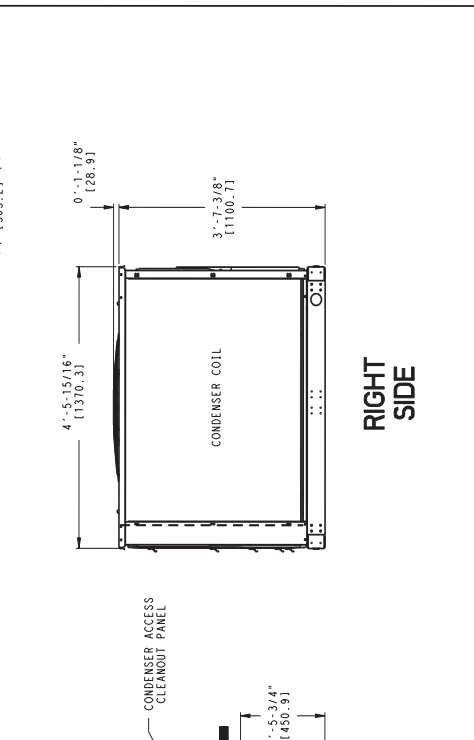
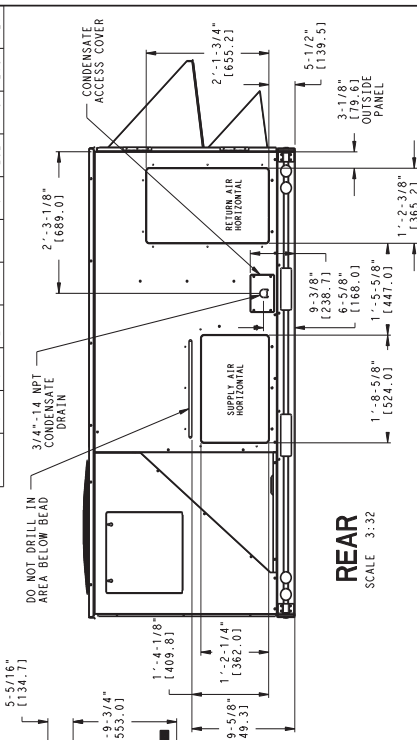


DATE	SUPERKERS	REV
05/01/07	02/09/07	4 0
	48PG 03-07 GAS HEAT	48HG500331

48/50PG03-07

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UNIT	STD. UNIT WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)			
	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.		
50R603	704	319	162	73	142	64	187	85	214	97
50R604	704	319	162	73	142	64	187	85	214	97
50R605	715	325	178	81	156	71	206	93	235	107
50R606	829	376	191	86	167	76	220	100	252	114
50R607	874	396	201	91	176	80	232	105	265	120



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